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		FIRST NAMED	INVENTOR		ATTORNEY DOCKET NO.
APPLICATION NO.	FILING DATE	FIRST NAMED	INVENTOR		
09/375,514	08/17/99	REED		J 	3335-075-55-
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LAURA A. CORUZZI PENNIE & EDMONDS LLF.				ART UNIT	PAPER NUMBER
PENNIE & E 1155 AVENU NEW YORK N	E OF THE A	MERICA5		1635	(V)

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)	
	09/375,514	REED, JOHN C.	
Office Action Summary	Examiner	Art Unit	
	Mary Schmidt	1635	
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atus 1) Responsive to communication(s) filed on	This action is non-fil	nal.	i
This action is FINAL.	1 This action is now		i IS
3) Since this application is in condition for a closed in accordance with the practice u	allowance except for it under Ex parte Quayle,	ormal matters, prosecution as to the merits, 1935 C.D. 11, 453 O.G. 213.	
	plication.	ration.	
4) Claim(s) 53-63 is/are pending in the spending at the spending in the spendi	ithdrawn from conside	,, 4,, 4,, 1,, 1,, 1,, 1,, 1,, 1,, 1,, 1	
5) Claim(s) is/are allowed.			
5) Ulailin(s) iolars rejected			
6) Claim(s) <u>53-63</u> is/are rejected.			
7) Claim(s) is/are objected to.	and/or election requir	rement.	
7) Claim(s) is/are objected to: 8) Claims are subject to restriction	·		
	Examiner.	viner	
9) ☐ The specification is objected to by the 10) ☐ The drawing(s) filed on is/are of	bjected to by the Exan	iller.	
	· · · ·	proved by disapproved.	
- declaration is objected to	by the Examiner.		
Priority under 35 U.S.C. § 119		or 35 U.S.C. § 119(a)-(d) or (f).	
Priority under 35 U.S.C. § 119 13)	for foreign priority unde	<u>, oo a</u>	
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a) All b) Some c) Notice of the priority of	documents have been	received.	
1. Certified copies of the priority (documents have been	received in Application No Its have been received in this National Stag	ne.
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* See the attached detailed Office action 14) Acknowledgement is made of a clair	m for domestic priority	under 35 U.S.C. § 119(e) ATRINATURNER	3
14) Acknowledgement is made of a cial		Patent analyst	ł
Attachment(s)		18) Interview Summary (PTO-413) Paper No(s))
Attachment(s) 15) Notice of References Cited (PTO-892) 16) Notice of Draftsperson's Patent Drawing Review	, (PTO-948)	19) Notice of Informal Patent Application (;-152)
 16) Notice of Draftsperson's Patent Drawing Review 17) Information Disclosure Statement(s) (PTO-1449 	- No(a) 5 8 7	20) Other:	

U.S. Patent and Trademark Office PTO-326 (Rev. 01-01)

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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: (1) Lines 10-14 of the 1. first page of the specification as filed need to be canceled since the Amendment to the first line of the specification (Amendment A1) provides duplicate information. (2) Also, the status of allowed Applications 08/080,285 and 08/465,485 in the first line of the specification needs to include the issued patent numbers. (3) Further, the brief description of the drawings needs to reference the sequences in the figures by sequence identifiers.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112: 2.

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 53 and 55 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite 3. for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claim 53 is indefinite for the language "consisting of from 10-35 bases and comprising" SEQ ID NO:17 since SEQ ID NO:17 is 18 bases long and thus the 10-17 base long anticodes as claimed could not comprise SEQ ID NO:17.

Claim 55 is indefinite for the language "wherein said anticode oligomer is ... complementary to a portion of the region of the splice acceptor site or splice donor site of the pre-mRNA encoding the bcl-2 gene" since it is not clear how many splice acceptor or donor sites there are in the disclosed bcl-2 gene sequence. If there is more than one such site, the claim as written is indefinite.

4. Claims 54-63 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 54-63 are drawn to anticode oligomers to the pre-mRNA, splice donor or splice acceptor sites, 5' UTR of the mRNA or any portion of the mRNA of bcl-2. The specification as filed teaches antisense to the human bcl-2 gene but does not disclose the gene sequence from other species of bcl-2 nor antisense to said sequences.

One skilled in the art would not have been in possession of the scope of antisense anticodes claimed to any bcl-2 gene in the art at the time the invention was made. Design of an

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antisense oligonucleotide to a target gene sequence is dependent on knowing the target gene sequence. The scope of possible bcl-2 genes was not disclosed at the time the invention was made such that one skilled in the art would have a representative number of species in which to design antisense to from the genus of all possible bcl-2 gene sequences.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Van Ormum*, 686 Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ormum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

6. Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.7

Claims 53-63 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-41 of U.S. Patent No. 5,831,066. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant claims drawn to anticode oligonucleotides directed to bcl-2 mRNA, and specifically the composition of SEQ ID NO:17, are encompassed by the methods and kits of '066 which include anticode oligonucleotides to bcl-2mRNA and the sequence of SEQ ID NO:17.

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7. Claims 53-63 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-21 of U.S. Patent No. 6,040,181. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant claims drawn to anticode oligonucleotides directed to bcl-2 mRNA, and specifically the composition of SEQ ID NO:17, are encompassed by the methods of '181 which include anticode oligonucleotides to bcl-2 mRNA and the sequence of SEQ ID NO:17.

- 8. The claims are free of the prior art, antisense to bcl-2, prior to December 22, 1988, the filing date of U.S. Application No. 07/288,692.
- 9. Should all claims be found allowable, the prevalence of antisense to bcl-2 in the post art would suggest that there will be a high potential for interference of any broad claims to human bcl-2.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary M. Schmidt, whose telephone number is (703) 308-4471.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader, may be reached at (703) 308-0447.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Analyst, Katrina Turner, whose telephone number is (703) 305-3413.

M. M. Schmidt June 18, 2001